

CLAIMS

The following is claimed:

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1. A support structure assembly for an escalator comprising:
a bottom landing support;
a top landing support; and
a rise for interconnecting said bottom landing support to said top landing support wherein said rise includes at least one module.

2. An assembly as recited in claim 1, wherein said at least one module is formed as a single piece stamping extending from said bottom landing support to said top landing support and having a U-shape with a horizontal base portion and a pair of vertical side portions.

3. An assembly as recited in claim 2, including at least one reinforcement beam secured to each side portion of said module.

4. An assembly as recited in claim 1 wherein said at least one module is comprises a plurality of stamped modules, each module formed as a single piece stamping having a U-shape with a horizontal base portion and a pair of vertical side portions and including a plurality of attachment plates for securing one stamped module to the next to form said rise.

5. An assembly as recited in claim 4, including a pair of beams for reinforcing each side portion and extending along the length of each stamped module.

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6. An assembly as recited in claim 1, wherein said at least one module is formed as a plurality of stamped modules, each module formed from a plurality of stampings including a single bottom piece and a pair of side pieces welded to said bottom piece to form a U-shape; and including a plurality of attachment plates for securing one of said modules to the next of said modules.

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7. An assembly as recited in claim 6, including a pair of beams for reinforcing each side portion and extending along the length of each stamped module.

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8. An assembly as recited in claim 1, wherein said at least one module is formed as a plurality of stamped modules with each module formed from a pair of stampings welded together and including at least one channel beam secured along one vertical edge of said module for joining with a mating channel beam on one of said adjacent stamped modules.

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9. An assembly as recited in claim 1, wherein said at least one module is formed as a plurality of stamped modules with each module formed from a first stamping having a generally vertical body portion with an angled upper edge and an angled lower edge and a second stamping having a generally vertical body portion with an angled upper edge and an angled lower edge, said first and second stampings being joined together such that said angled upper edges extend in opposing directions from each other to form an upper channel and said angled lower edges extending in opposing directions from each other to form a lower channel.

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10. An assembly as recited in claim 9, including a plurality of attachment plates for joining side edges of said body portions of one of said stamped modules to the next of said stamped modules.

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11. An assembly as recited in claim 10, including a first beam received in said upper channel and a second beam received in said lower channel for reinforcing said rise.

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12. An assembly as recited in claim 11 wherein said angled upper and lower edges extend at a forty-five degree angle relative to said body portion such that said upper and lower channels are form as a ninety degree angle when said first stamping is joined to said second stamping.

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13. The assembly of claim 1, wherein the module comprises a steel sheet near an escalator machine.

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14. The assembly of claim 13, wherein the steel sheet module is welded to other portions of the rise.

15. A support structure assembly for an escalator comprising:
a bottom landing module;
a top landing module; and
a rise module for interconnecting said bottom and top landing modules
wherein each of said modules is comprised of a plurality of sub-modules each made from
a pair of steel forms joined together.

16. An assembly as recited in claim 15, including at least one channel beam
secured along one vertical side edge of said sub-module for joining with a mating channel
beam on an adjacent sub-module.

17. An assembly as recited in claim 16, wherein adjacent channel beams are
fastened together with a plurality of fasteners.

18. An assembly as recited in claim 16 wherein adjacent channel beams are
welded together.

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